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# OIPE

## RAW SEQUENCE LISTING

DATE: 01/08/2002

PATENT APPLICATION: US/09/965,551

TIME: 14:42:06

Input Set : N:\Crf3\RULE60\09965551.raw

Output Set: N:\CRF3\01082002\I965551.raw

1 <110> APPLICANT: Manoharan, Muthiah  
 2 <120> TITLE OF INVENTION: Carbohydrate or 2'-Modified Oligonucleotides Having  
 3 Alternating Internucleoside Linkages  
 4 <130> FILE REFERENCE: ISIS3863  
 5 <140> CURRENT APPLICATION NUMBER: US/09/965,551  
 6 <141> CURRENT FILING DATE: 2001-09-27  
 7 <150> PRIOR APPLICATION NUMBER: 09/349,007  
 8 <151> PRIOR FILING DATE: 1999-07-07  
 9 <160> NUMBER OF SEQ ID NOS: 13  
 10 <170> SOFTWARE: PatentIn Ver. 2.1  
 12 <210> SEQ ID NO: 1  
 13 <211> LENGTH: 20  
 14 <212> TYPE: DNA  
 15 <213> ORGANISM: Artificial Sequence  
 16 <220> FEATURE:  
 17 <221> NAME/KEY: modified\_base  
 18 <222> LOCATION: (1)..(20)  
 19 <223> OTHER INFORMATION: Alternating phosphodiester/phosphorothioate  
 20 linkages  
 21 <221> NAME/KEY: modified\_base  
 22 <222> LOCATION: (2)..(20)  
 23 <223> OTHER INFORMATION: 2'-Methoxyethoxy  
 24 <223> OTHER INFORMATION: Description of Artificial Sequence: Novel Sequence  
 25 <400> SEQUENCE: 1  
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 28 <210> SEQ ID NO: 2  
 29 <211> LENGTH: 20  
 30 <212> TYPE: DNA  
 31 <213> ORGANISM: Artificial Sequence  
 32 <220> FEATURE:  
 33 <221> NAME/KEY: modified\_base  
 34 <222> LOCATION: (1)..(20)  
 35 <223> OTHER INFORMATION: Alternating phosphodiester/phosphorothioate  
 36 linkages  
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 38 <222> LOCATION: (1)..(6)  
 39 <223> OTHER INFORMATION: 2'-Methoxyethoxy  
 40 <221> NAME/KEY: modified\_base  
 41 <222> LOCATION: (15)..(20)  
 42 <223> OTHER INFORMATION: 2'-Methoxyethoxy  
 43 <223> OTHER INFORMATION: Description of Artificial Sequence: Novel Sequence  
 44 <400> SEQUENCE: 2  
 45 atgcattctg cccccaagga 20  
 47 <210> SEQ ID NO: 3  
 48 <211> LENGTH: 20  
 49 <212> TYPE: DNA  
 50 <213> ORGANISM: Artificial Sequence

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51 <220> FEATURE:
52 <221> NAME/KEY: modified_base
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54 <223> OTHER INFORMATION: Alternating phosphodiester/phosphorothioate
55     linkages
56 <221> NAME/KEY: modified_base
57 <222> LOCATION: (13)..(20)
58 <223> OTHER INFORMATION: 2'-Methoxyethoxy
59 <223> OTHER INFORMATION: Description of Artificial Sequence: Novel Sequence
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65 <212> TYPE: DNA
66 <213> ORGANISM: Artificial Sequence
67 <220> FEATURE:
68 <223> OTHER INFORMATION: Description of Artificial Sequence: Novel Sequence
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75 <213> ORGANISM: Artificial Sequence
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79 <223> OTHER INFORMATION: All phosphorothioate linkages
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87 <213> ORGANISM: Artificial Sequence
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91 <223> OTHER INFORMATION: All phosphorothioate linkages
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93 <222> LOCATION: (1)..(20)
94 <223> OTHER INFORMATION: 2'-Methoxyethoxy
95 <223> OTHER INFORMATION: Description of Artificial Sequence: Novel Sequence
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102 <213> ORGANISM: Artificial Sequence
103 <220> FEATURE:

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104 <221> NAME/KEY: modified_base
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106 <223> OTHER INFORMATION: 2'-Methoxyethoxy
107 <223> OTHER INFORMATION: Description of Artificial Sequence: Novel Sequence
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114 <213> ORGANISM: Artificial Sequence
115 <220> FEATURE:
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117 <222> LOCATION: (1)..(20)
118 <223> OTHER INFORMATION: Alternating phosphodiester/phosphorothioate
119      linkages
120 <221> NAME/KEY: modified_base
121 <222> LOCATION: (1)..(20)
122 <223> OTHER INFORMATION: Staggered 2'-Methoxyethoxy
123 <223> OTHER INFORMATION: Description of Artificial Sequence: Novel Sequence
124 <400> SEQUENCE: 8
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129 <212> TYPE: DNA
130 <213> ORGANISM: Artificial Sequence
131 <220> FEATURE:
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134 <223> OTHER INFORMATION: 2'-Methoxyethoxy
135 <221> NAME/KEY: modified_base
136 <222> LOCATION: (2)
137 <223> OTHER INFORMATION: c=5-methyl
138 <221> NAME/KEY: modified_base
139 <222> LOCATION: (10)
140 <223> OTHER INFORMATION: c=5-methyl
141 <221> NAME/KEY: modified_base
142 <222> LOCATION: (18)
143 <223> OTHER INFORMATION: c=5-methyl
144 <221> NAME/KEY: modified_base
145 <222> LOCATION: (20)
146 <223> OTHER INFORMATION: c=5-methyl
147 <223> OTHER INFORMATION: Description of Artificial Sequence: Novel Sequence
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153 <212> TYPE: DNA
154 <213> ORGANISM: Artificial Sequence
155 <220> FEATURE:

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158 <223> OTHER INFORMATION: c=5-methyl
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160 <222> LOCATION: (6)
161 <223> OTHER INFORMATION: c=5-methyl
162 <221> NAME/KEY: modified_base
163 <222> LOCATION: (9)
164 <223> OTHER INFORMATION: c=5-methyl
165 <221> NAME/KEY: modified_base
166 <222> LOCATION: (13)
167 <223> OTHER INFORMATION: c=5-methyl
168 <223> OTHER INFORMATION: Description of Artificial Sequence: Novel Sequence
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173 <211> LENGTH: 20
174 <212> TYPE: DNA
175 <213> ORGANISM: Artificial Sequence
176 <220> FEATURE:
177 <221> NAME/KEY: modified_base
178 <222> LOCATION: (1)..(20)
179 <223> OTHER INFORMATION: 2'-Methoxyethoxy
180 <221> NAME/KEY: modified_base
181 <222> LOCATION: (1)..(20)
182 <223> OTHER INFORMATION: All phosphorothioate linkages
183 <221> NAME/KEY: modified_base
184 <222> LOCATION: (2)
185 <223> OTHER INFORMATION: c=5-methyl
186 <221> NAME/KEY: modified_base
187 <222> LOCATION: (10)
188 <223> OTHER INFORMATION: c=5-methyl
189 <221> NAME/KEY: modified_base
190 <222> LOCATION: (18)
191 <223> OTHER INFORMATION: c=5-methyl
192 <221> NAME/KEY: modified_base
193 <222> LOCATION: (20)
194 <223> OTHER INFORMATION: c=5-methyl
195 <223> OTHER INFORMATION: Description of Artificial Sequence: Novel Sequence
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200 <211> LENGTH: 20
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202 <213> ORGANISM: Artificial Sequence
203 <220> FEATURE:
204 <221> NAME/KEY: modified_base
205 <222> LOCATION: (4)
206 <223> OTHER INFORMATION: c=5-methyl

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207 <221> NAME/KEY: modified_base
208 <222> LOCATION: (6)
209 <223> OTHER INFORMATION: c=5-methyl
210 <221> NAME/KEY: modified_base
211 <222> LOCATION: (9)
212 <223> OTHER INFORMATION: c=5-methyl
213 <221> NAME/KEY: modified_base
214 <222> LOCATION: (13)
215 <223> OTHER INFORMATION: c=5-methyl
216 <223> OTHER INFORMATION: Description of Artificial Sequence: Novel Sequence
217 <400> SEQUENCE: 12
218      gatcgcgctcg gactatgaag                                20
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221 <211> LENGTH: 20
222 <212> TYPE: DNA
223 <213> ORGANISM: Artificial Sequence
224 <220> FEATURE:
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226 <222> LOCATION: (1)..(20)
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229 <222> LOCATION: (1)..(20)
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231      linkages
232 <221> NAME/KEY: modified_base
233 <222> LOCATION: (2)
234 <223> OTHER INFORMATION: c=5-methyl
235 <221> NAME/KEY: modified_base
236 <222> LOCATION: (10)
237 <223> OTHER INFORMATION: c=5-methyl
238 <221> NAME/KEY: modified_base
239 <222> LOCATION: (18)
240 <223> OTHER INFORMATION: c=5-methyl
241 <223> OTHER INFORMATION: Description of Artificial Sequence: Novel Sequence
242 <400> SEQUENCE: 13
243      tctgagtagc agaggagctc                                20

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**VERIFICATION SUMMARY**

PATENT APPLICATION: US/09/965,551

DATE: 01/08/2002

TIME: 14:42:07

Input Set : N:\Crf3\RULE60\09965551.raw

Output Set: N:\CRF3\01082002\I965551.raw